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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,260	09/10/2003	Francesco Viaro	22106-00042-US	4010
30678 7	590 05/12/2005		EXAM	INER
CONNOLLY SUITE 800	BOVE LODGE & H	NGUYEN	, ЛММҮ	
1990 M STREET NW			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036-3425			2829	

DATE MAILED: 05/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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CFR 1.121(d). PTO-152.	
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	Application No.	Applicant(s)			
	10/658,260	VIARO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jimmy Nguyen	2829			
The MAILING DATE of this communical Period for Reply	tion appears on the cover sheet w	rith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thi ry period will apply and will expire SIX (6) MO by statute, cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed of	on <u>07 <i>March</i> 2005</u> .				
2a) This action is FINAL . 2b)					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-13 is/are pending in the appleau Aa) Of the above claim(s) is/are versions 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	vithdrawn from consideration.				
Application Papers					
9) The specification is objected to by the E	xaminer.				
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.			
Applicant may not request that any objection	n to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority doc 2. ☐ Certified copies of the priority doc 3. ☐ Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in A he priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No I received in this National Stage			
Attachment(s)		1			
1) 🔯 Notice of References Cited (PTO-892) 2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-		Summary (PTO-413) s)/Mail Date			
Notice of Dransperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date		nformal Patent Application (PTO-152)			

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Specification

Response to Argument

The argument filed 3/7/05 found persuasive, therefore the examiner is hereby provide new ground of rejection as indicated below.

Claims Objection

In claim 1, the examiner is unclear the term "partialised feeding".

In claim 4, before "electronic "the word "h" is unclear.

Clarification is required.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 5, 7 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Hara et al (US 7,777,932).

As to claim 1, Hara et al disclose (fig 1) a device for the measurement of the current in a conductor, comprising:

means (1) for detecting a current,

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means (interconnection lines between the components) for the transmission of a signal indicative of the current,

electronic (3) means for the control, acquisition and processing of such signal indicative of the current.

connecting (at the output terminals 20, 21) means for the feeding of the device and for the communication (to others device that connected to the output of the current sensor), wherein said device includes means (2, 5) for the partialised feeding of such means for detecting a current.

As to claim 2, Hara et al disclose (fig 1) a device according to claim 1, wherein means for detecting a current include an insulating support and at least one magnetic field sensor (1).

As to claim 3, Hara et al disclose (fig 1) a device according to claim 1, wherein magnetic field sensor is a hall sensor (1).

As to claim 4, Hara et al disclose (fig 1) a device according to claim 1, wherein said means for the partialised feeding are controlled by said electronic (3) means for the control, acquisition and processing of said signal indicative of the current.

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As to claim 5, Hara et al disclose (fig 1) a device according to claim 1, wherein means for the transmission of signal indicative of the current are linked to means of adaptation of signal.

As to claim 7, Hara et al disclose (fig 1) a device according to claim 1, wherein connecting (at the output terminals 20, 21) means include feeding means and bidirectional communication.

As to claim 8, Hara et al disclose (fig 1) a device according to claim 1, wherein feeding means are fed by a current transformer (not shown, but wrap around by hall element 1) positioned on a conductor.

As to claim 9, Hara et al disclose (fig 1) a device according to claim 8, wherein conductor is a conductor exposed to measurement.

As to claim 10, Hara et al disclose (fig 1) a device according to claim 7, wherein feeding means are linked to an external feeding source.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hara et al (US 7,777,932) in view of Gaines (US 5,548,279).

As to claim 6, Hara et al disclosed everything except for the ADC connected to the adaptation signal. On the other hand, Gaines disclose (fig 2) a device according to claim 1, wherein means of adaptation of signal (output signal from the sensor 16) are connected to means of ADC (64).

It would have been obvious to one having an ordinary skill in the art at the time of the invention was made to modify the teaching of Hara et al with the ADC as taught by Gaines for the purpose of converting the analog signal to digital signal.

5. Claims 11- 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hara et al (US 7,777,932) in view of Vila Masot (US 4,706,073).

As to claim 11, Hara et al disclosed everything except for an automatic low voltage circuit breaker including one or more devices being connected to a communication bus, in its turn connected to a protection device through an interface

On the other hand, Vila Masot teaches (figs 5 – 7) an automatic low

voltage circuit breaker including one or more devices (sensors 40) being connected to a communication bus (alarm circuit), in its turn connected to a protection device (circuit breaker) through an interface.

It would have been obvious to one having an ordinary skill in the art at the time of the invention was made to modify the teaching of Hara et al with the circuit breaker as taught by Vila Masot for the purpose protecting the circuit when the sensor detect the overload current.

As to claims 12, 13, Hara et al disclosed everything except for the operation of a circuit breaker with the sensor which is maintaining the feeding current during the first period and bringing the device in a stand by condition with feeding interrupting.

On the other hand, Vila Masot teaches (figs 5-7) the operation of a circuit breaker with the sensor which is maintaining the feeding current during the first period and bringing the device in a stand by condition with feeding interrupting.

It would have been obvious to one having an ordinary skill in the art at the time of the invention was made to modify the teaching of Hara et al with the circuit breaker as taught by Vila Masot for the purpose protecting the circuit when the sensor detect the overload current.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy Nguyen whose telephone number is (703) 306-5858. The examiner can normally be reached on M-F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ramtiez Nestor, can be reached on 571-272-2034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JN. May 4, 2005 VINH NGUYEN
PRIMARY EXAMINER
A.U. 2829

05/11/05